





UPS Sustainability Imperial College London Monday 26th July , 2010

Meeting venue: Camden

15:00	Introduction to UPS & Operation	Nigel Marsh
15:15	Sustainability Presentation	Peter Harris
15:45	Automotive Presentation	Peter Thomas / Luke Wake
16:00	Facility Tour	
	Split into smaller groups of 5 per UPS Employee	
16:45	Debrief Review, Q&A	
17:30	Depart	



UPS Global Overview

26th July 2010

Nigel Marsh



Global Fact Sheet

Founded in Seattle, Wash. August 28, 1907, **Headquarters** Atlanta, USA.

Employees 408,000 (340,000 U.S.; 68,000 International)

PACKAGE OPERATIONS

- **2009 delivery volume** 3.8 billion packages and documents
- **Daily delivery volume** 15.1 million packages and documents
- **Daily U.S. air volume** 2.2 million packages and documents
- **Daily international volume** 2.0 million packages and documents

Service area More than 200 countries and territories

Customers 7.9 million daily (1.8 million pick-up, 6.1 million delivery)

Online tracking Average 22.4 million daily tracking requests

Global Fact Sheet

Retail access More than 60K

Operating facilities 1,801

Delivery fleet 96,105 package cars, vans, tractors, motorcycles, including 1,883 alternative-fuel vehicles

UPS jet aircraft 212 in service (267 aircraft total; 9th largest in the world)

Chartered aircraft 298

Daily flight segments Domestic – 959; International – 763

Airports served Domestic – 400; International – 435

Air hubs

- **United States** Louisville, KY (main Global Air Hub) + 6 other hubs
- **Europe** Cologne/Bonn, Germany
- **Asia / Pacific** Shanghai; Shenzhen; Hong Kong
- **Latin America and Caribbean** Miami, FL, USA
- **Canada** Hamilton, Ontario

Europe Facts

ESTABLISHED IN EUROPE 1976, Germany

EUROPE HEADQUARTERS Brussels, Belgium

EUROPE AREAS SERVED 57 countries and territories (more than 120 including MEast and Africa)

EUROPE POINTS OF ACCESS More than 1,300 (UPS centres, MBE & UPS drop-off locations)

EUROPE OPERATING FACILITIES Approximately 470 (330+ package; 136 SCS – 350Km² warehouse space)

Europe Facts

EMPLOYEES Europe: 40,000

EUROPE DELIVERY FLEET More than 8,900 (package cars, vans and tractors)

DAILY FLIGHT SEGMENTS

- **INTRA-EUROPE** 177
- **INTERCONTINENTAL** 155

AIRPORTS SERVED

- **INTRA-EUROPE** 56
- **INTERCONTINENTAL** 10

EUROPE AIR HUB Cologne/Bonn (Germany)

UK District

POINTS OF ACCESS Approximately 150 (UPS Centres, MBE Centres)

OPERATING FACILITIES 50 Small Package, 13 SCS (55Km² whs space)

EMPLOYEES Approximately 7,500

DELIVERY FLEET Approximately 3,500 (package cars, vans & tractors)

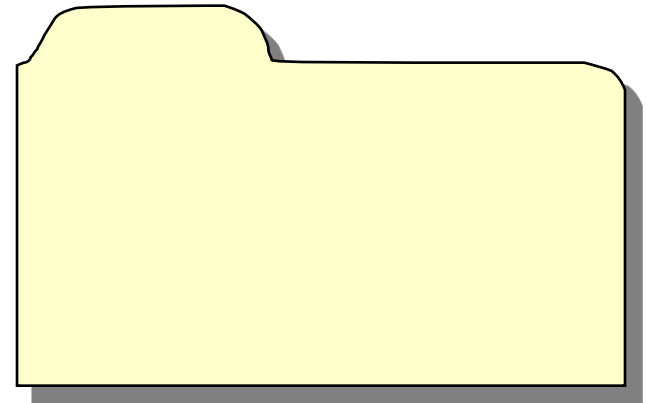
AIRPORTS SERVED EMA, EDI, STN & BFS



Global Sustainability

26th July 2010

Peter Harris





UPS UK Automotive Sustainability

26th July 2010

Peter Thomas / Luke Wake



Fleet Overview

- 1871 Package Car Vehicles
 - Predominately Mercedes - Sprinter , T2 , Vario
 - Custom Bodies on Manufacturers Chassis

P45D



P80D



Fleet Overview

- P60E , 6 Electric Modec Vehicles , a further 14 ordered.



Fleet Overview

- 386 Feeder Powered Vehicles
 - Predominately DAF – 85 / 95 / 105 and some MAN , Mercedes

HTD



H74D



Fleet Overview

- 942 Trailers
 - 50/50 Split between Twin Axle and Tri Axle



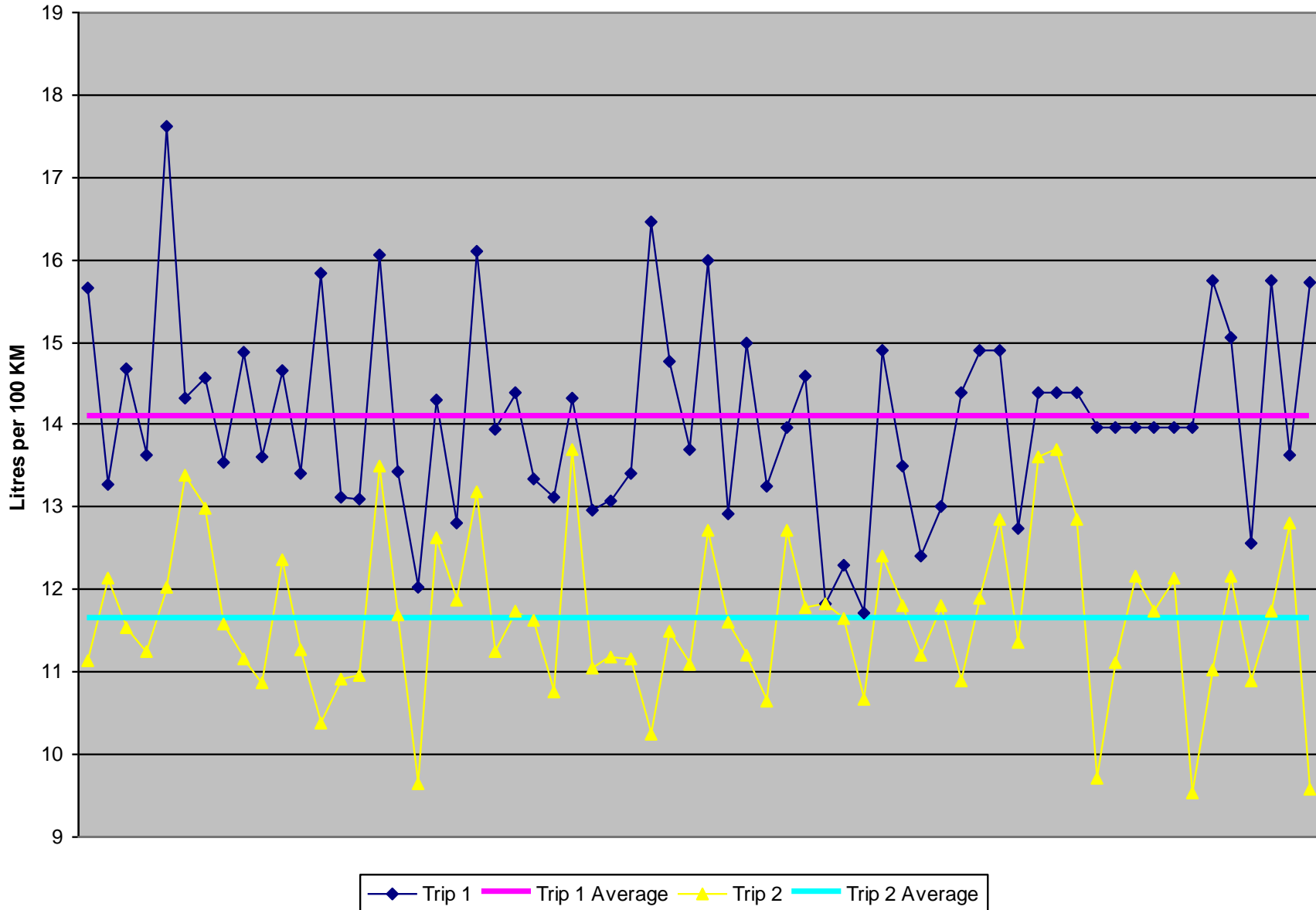
UK Automotive Sustainability Project

- Reduce Fuel Consumption
- Increase Fuel Efficiency
- Reduce Carbon emissions
- Reduce Wear and Tear on Vehicles
- Safer Driving
- Company Environmental Commitment

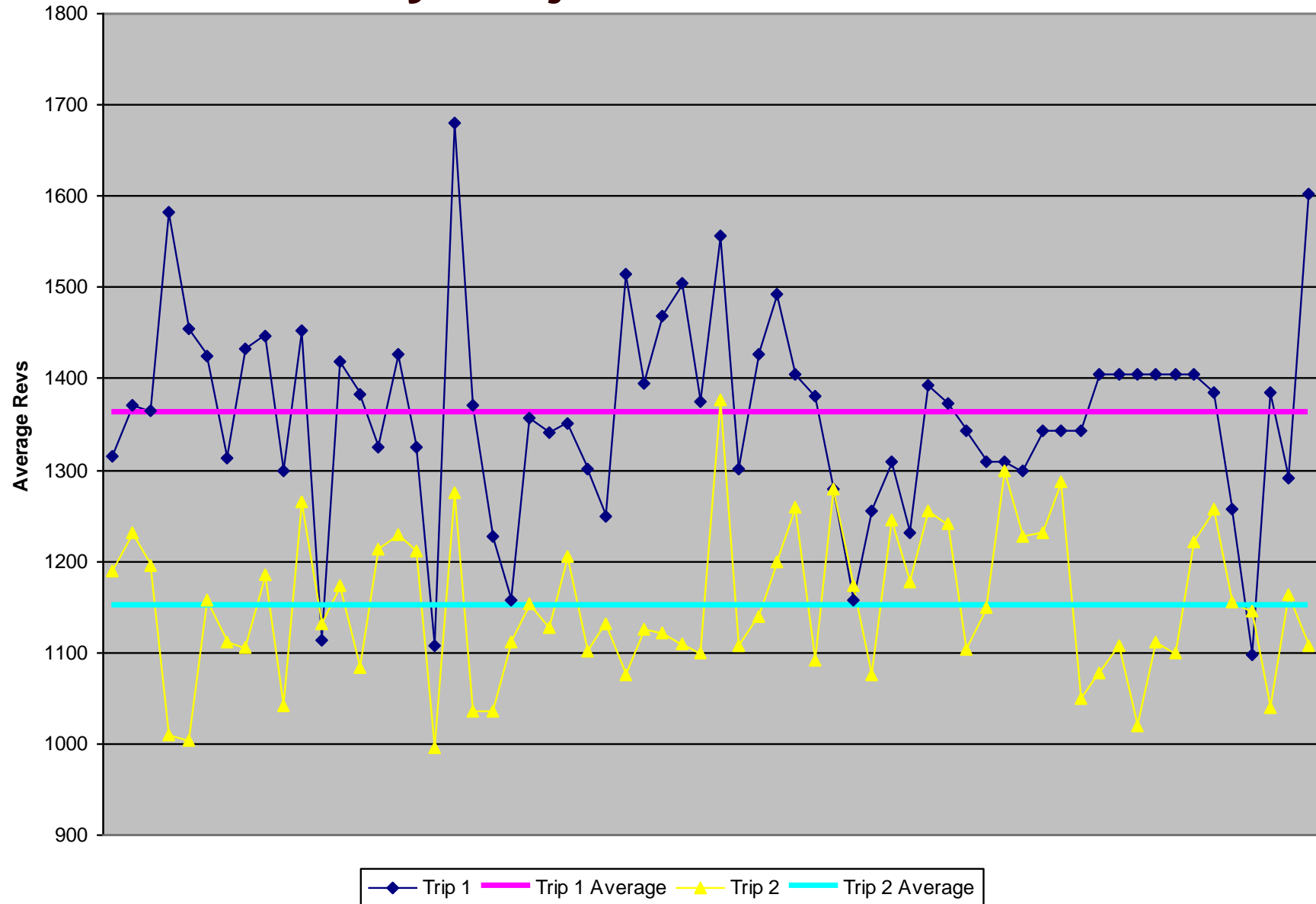
Driver Training

- All UPS UK & IRE drivers and management team receiving fuel management training
- Increased fuel efficiency awareness
- Change in driving style;
- Utilize optimum gear
- Reduce Average RPM
- Reduce hard acceleration and braking
- Smoother driving style
- Reduce idling time
- Overall increases in fuel economy

Sustainability Project – L/100 KM Training Results



Sustainability Project – RPM Reduction Results



UK Automotive Sustainability Project

- Regular Publication

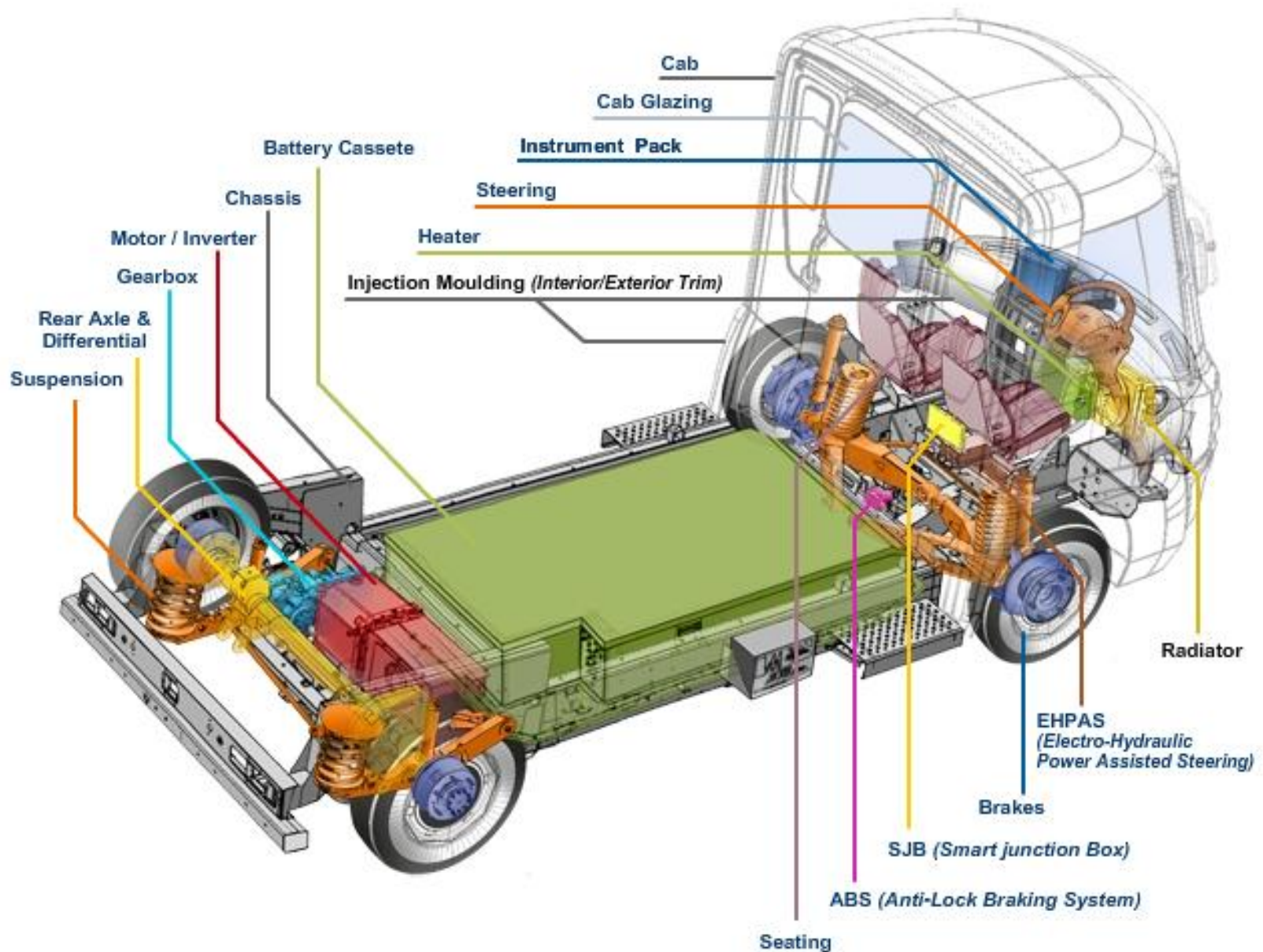
- Vehicle efficiency reports published on a daily and weekly basis
- 'Most help needed' centre's identified
- Follow up with drivers to improve driving style if appropriate
- Fuel efficiency has being proven to be increased by up 22% if a driver is aware of their fuel consumption and the impact their driving style has on this.

Electric Modec Vehicles

- Range up to 100 Miles / 160 KM
- Top Speed , 50 MPH / 80 KMH
- Payload , 2 Tones
- Battery Charged Overnight – 8 Hour Charge Empty to Full
- Low Maintenance Costs , Few Moving Parts
- Batteries can be easily replaced – 20 Minutes
- ZERO Congestion Charge
- ZERO Road Tax
- ZERO Operators License
- No MOT Required



Map of Vehicle



Electric vs. Diesel , Like for Like

Element	Diesel – Mercedes Vario	Electric - Modec
Efficiency	16.82 MPG , 16.8 L/100 KM	0.85 kWh per Mile
Financial (Net)	£0.9989 PPL	£0.4 per kWh (Night)
Pence Per KM	£0.1678	£0.0211
Financial Reduction		87.41%
CO2 Output	450 g/KM	0 g/KM * 262 g/KM **
Environmental Reduction		100% * 41.7% **

* Sustainable Source ** National Grid Average Output: 497g kWh

Facility Tour

Thank You.